EBSI Technology explained as a useful servant

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Smals
ICT for society

EBSI4be

EBSI Version 1

- First European node: Belnet (February '20)
- Second Belgian node: Smals (April '20)
- Test only
- Demo: Eva's journey (Diplomas, Identity)

EBSI Version 2

- Planned for april 2021
- Test, pilot and production environment
- Many more use cases

Belnet
dedicated connectivity

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🟢 25 Live Nodes

🟡 11 Nodes in Setup phase

The EBSI stack

BUSINESS APPLICATIONS

Notary connector	IOSS VAT application	University X application	...

USE CASES

Self-sovereign identity	Notarisation	Trusted data sharing	Diploma	...

CORE SERVICES

Wallet API	Storage API	Ledger API	Catalog API
Verifiable presentation API	Verifiable credential API	Timestamping API	...

CHAIN & STORAGE

HYPERLEDGER BESU   HYPERLEDGER FABRIC   cassandra   ???

INFRASTRUCTURE

Smals
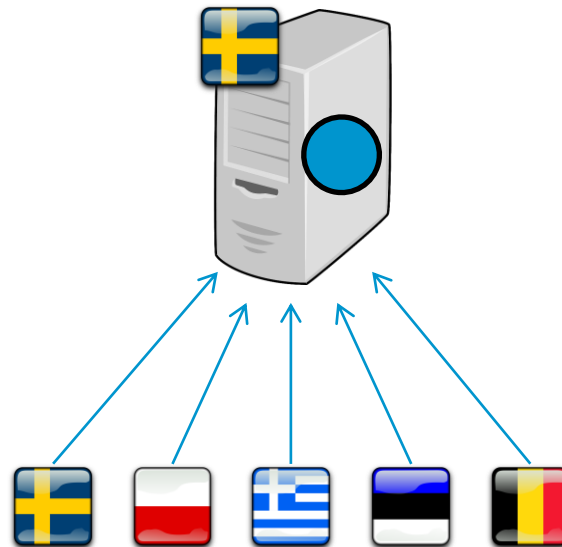ICT for society

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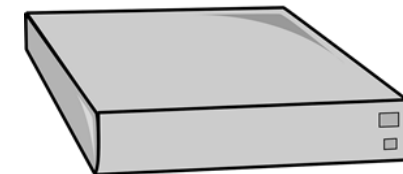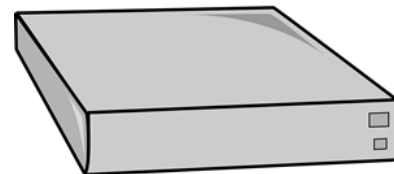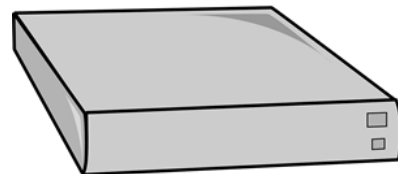
One party controls the system and all data

Speed

Straightforward

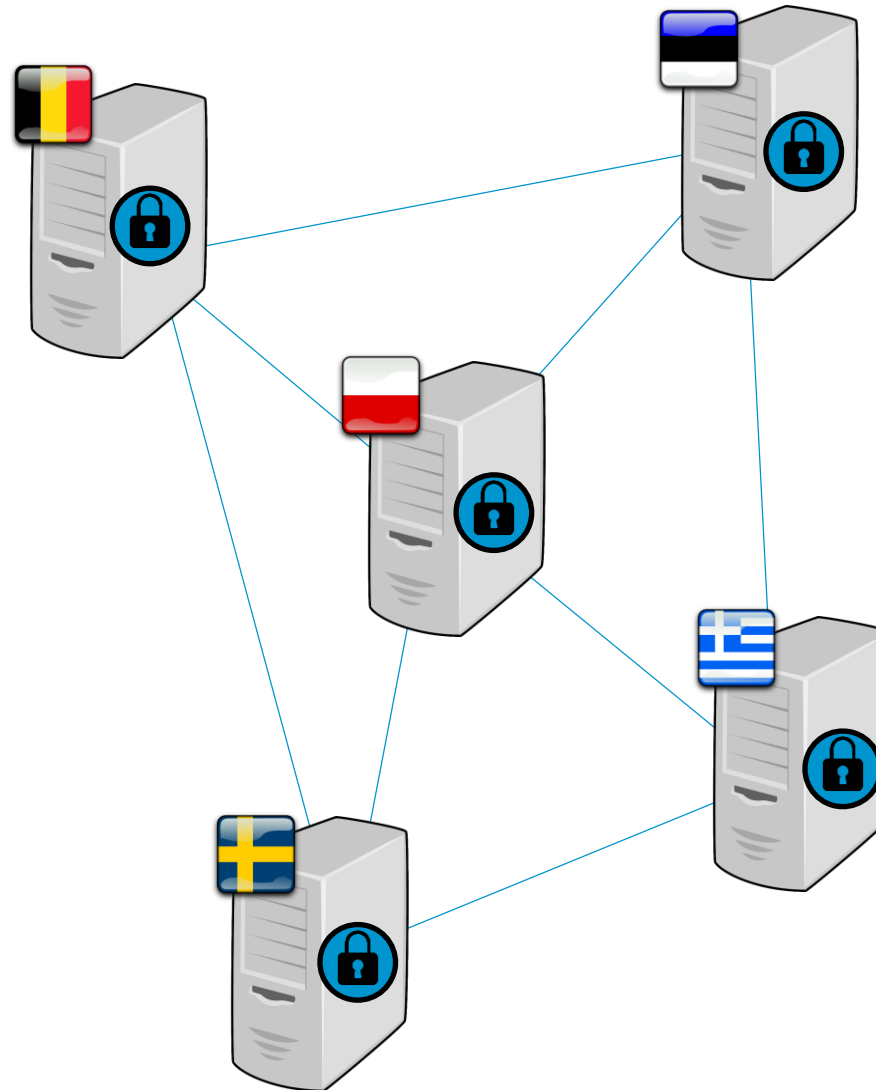**Single point of failure**
Availability

Single point of compromise

Primus inter pares
Control & liabilites

EBSI4be

Many interconnected parties do the same calculations, store the same data and verify each other

No single point of failure

No single point of compromise

No primus inter pares
Control & liabilites

No disputes about data & computations

Complex infrastructure

Complex security & cryptography

Complex agreements & governance

Complex GDPR compliance

Expensive
If built from scratch

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No single point of failure

No single point of compromise

No primus inter pares
Control & liabilites

No disputes about data & computations

The ambition of EBSI is to offer a pan-European, **generic blockchain infrastructure** for public services **where these challenges are already tackled** for you.

Complex infrastructure

Complex security & cryptography

Complex agreements

Complex GDPR compliance

Expensive
If built from scratch

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**EBSI4be wants to continue playing a constructive role
in the further development, deployment and uptake of EBSI**

BelBlock

*Blockchain-based public services
for Belgium (EU funded)*

- **Hosting & improving nodes**
- Validating / challenging
  security & privacy
- **Map Belgian needs onto
  diploma use case**
- **Stimulate awareness &
  uptake in Belgium**

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Thanks for listening!